## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

PC	2 3 4 5	528
CETZZII ZOO	No. 14. 2.1 2005. 4. 2.1	
20	21/91/51/W	

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
OF04P207	ACTION as well as	, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/KR2004/003528	30 DECEMBER 2004 (30.12.2004)	30 DECEMBER 2003 (30.12.2003)
Applicant		
SEOUL NATIONAL UNIVERSI	TY INDUSTRY FOUNDATION et	al
This International search report has been prepared to Article 18. A copy is being transmitted to the	ared by this International Searching Authority ne International Bureau.	and is transmitted to the applicant according
This international search report consists of a to	otal of 4 sheets.	
It is also accompanied by a copy	y of each prior art document cited in this report	
	ernational search was carried out on the basis of some state of the search was carried out on the basis of some search was carried out on the basis of search was carried out on the search was carried out on the search was carried out of search was carried out on the search was carried out of search was carried out o	of the international application in the
The international search withis Authority (Rule 23.1	was carried out on the basis of a translation of the (b)).	he international application furnished to
b. With regard to any nucleotide a	and/or amino acid sequence disclosed in the ir	nternational application, see Box No. I.
2. Certain claims were found uns	searchable (See Box No. II)	
3. Unity of invention is lacking (S	See Box No. III)	
4. With regard to the title,		
the text is approved as submitted	by the applicant.	
the text has been established by	this Authority to read as follows:	
<del></del>		
	•	
5. With regard to the abstract,		
the text is approved as submitted	by the applicant.	
	cording to Rule 38.2(b), by this Authority as it	appears in Box No. IV The applicant
	date of mailing of this international search repo	
6. With regard to the drawings,		
ŭ ,	ished with the abstract is Figure No.	
as suggested by the applica	<del></del>	
because the applicant failed	to suggest a figure.	
because this figure better ch	naracterizes the invention.	
b. none of the figure is to be publis	hed with the abstract.	

International application No. PCT/KR2004/003528

#### A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 C12N 5/28, C12N 5/00, C12N 5/02, C12N 5/08

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

'Minimum documentation searched (classification system followed by classification symbols)

IPC7 C12N 5/28, 5/00, 5/02, 5/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applictions for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

eKIPASS, Delphion, PubMed, 'embryonic stem cell', 'somatic nuclear transfer'

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2002/086073 (MEMORIAL SLOAN-KETTERING CANCER CENTER; THE ROCKEFELLER UNIVERSITY) 31 October 2002. See the whole document.	1-26
Α	CHEN, Y. et al., 'Embryonic stem cells generated by nuclear transfer of human somatic nuclei into rabbit oocytes' In Cell Research, August 2003, Vol.13(4), pp.251-263. See the whole document.	1-26
Α	KWUN, J. et al., 'Effects of exogenous hexoses on bovine in vitro fertilized and cloned embryo development: Improved blastocyst formation after glucose replacement with fructose in serum-free culture medium' In Mol. Reprod. Dev., June 2003, Vol.65(2), pp.167-174. See the whole document.	25,26
A	ZHANG, S.C. et al., 'In vitro differentiation of transplantable neural precursors from human embryonic stem cells' In Nature Biotechnology, December 2001, Vol.19, pp.1129-1133. See the whole document.	1-26
A	REUBINOFF, B.E. et al., 'Embryonic stem cell lines from human blastocysts: somatic differentiation in vitro' In Nature Biotechnology, April 2000, Vol. 18, pp.399-404. See the whole document.	1-26

-[X]	Further	documents	are	listed	in	the	conti	nua	tion	of	Box	C.
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See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

18 APRIL 2005 (18.04.2005)

Date of mailing of the international search report

20 APRIL 2005 (20.04.2005)

Name and mailing address of the ISA/KR



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Telephone No. 82-42-481-8160



### INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/003528

tegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
	, , , , , , , , , , , , , , , , , , , ,	
Α	GURDON, J.B. et al., 'Nuclear reprogramming and stem cell creation' In Proc. Natl. Acad. Sci., 30 September 2003, Vol.100(Supple.1), pp.11819-11822. See the whole document.	1-26
Α	SHU, Y., ZHUANG, G. 'Preliminary study on human cumulus cell nuclear transfer' In Fertil. Steril., September 2002, Vol.78(3) Suppl.1, S286. See the whole document.	1-26

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2004/003528

	PCT/KI	PC1/KR2004/003528			
Publication date	Patent family member(s)	Publication date			
31.10.2002	US 20030036195 A1	20.02.2003			
	·				
	31.10.2002	Publication date Patent family member(s)  31.10.2002 US 20030036195 A1			